



Dart Hawkesbury  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

**D3910-5**  
**Job Sheet 167537**



Part No: D3910-5

Job Qty: 30 ea

Part Name: Crosstube Lug



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 11/2/17

Job Tracking No:

Due Date: 11/17/17

Created By: Chantal Lavoie

Type: Stock

Description:

Ship Via:

DWG REV. E

### Bill of Materials

### Job Routing

| Op No | Operation  | Qty    | Start Date | Due Date | Standard  |         | Workcenter/Supplier   |           | Sign-off                |
|-------|------------|--------|------------|----------|-----------|---------|-----------------------|-----------|-------------------------|
|       |            |        |            |          | Setup hrs | Run Hrs | Workcenter / Supplier | Lead Time |                         |
| 110   | Purchasing | 30 pcs |            | 11/17/17 | 0.00      | 0.00    | Purchasing            |           | <br>9-89<br>NOV 17 2017 |
| 120   | Packaging  | 30 pcs |            | 11/17/17 | 0.00      | 0.00    | Packaging2            |           |                         |
| 130   | QC         | 30 pcs |            | 11/17/17 | 0.00      | 0.00    | QC6                   |           |                         |
| 180   | Packaging  | 30 pcs |            | 11/17/17 | 0.00      | 0.00    | Packaging3            | 57524     |                         |
| 190   | QC21-SA    | 30 Ea  |            | 11/17/17 | 0.00      | 0.00    | QC21                  |           |                         |

Part Op 110 - ISSUE PO TO METEC, NOTE ALODINE AND PAINT AS PER QSI 005  
Descriptions: 120 - Ensure C of C is attach

DAS  
21  
9-89  
NOV 17 2017

### Job Allocations

| Operation      | Component Part | Required | Inventory | Allocated | Std Qty |
|----------------|----------------|----------|-----------|-----------|---------|
| 110-Purchasing | D2423          | 4        | 471       | 0         | 0       |
|                | D3910-5P       | 30       | 0         | 0         | 0       |

### Part Specifications

Specifications could not be found.

Plex 11/2/17 9:25 AM DART.LAVOIE.CHANTAL

**DART**  
AEROSPACE  
**S007767**

Crosstube Lug

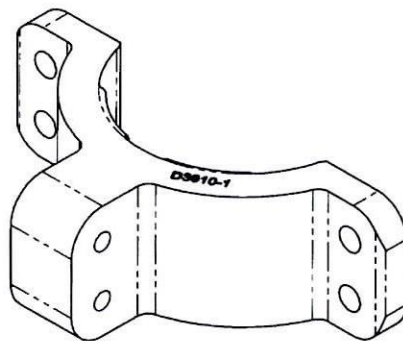
**PART NO:**  
**Revision:**  
**Operation:**  
**Change No:**

**D3910-5**

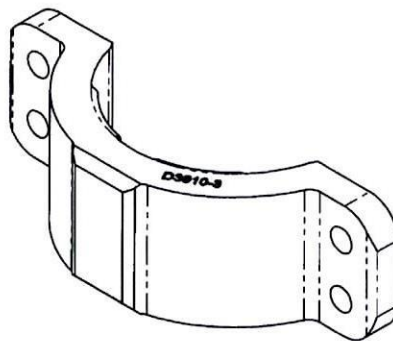
**Packaging**

**Dart Aerospace Ltd.**  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
CANADA  
TEL.: 1 613 632-5200  
Email: sales@dartaero.com  
www.dartaerospace.com

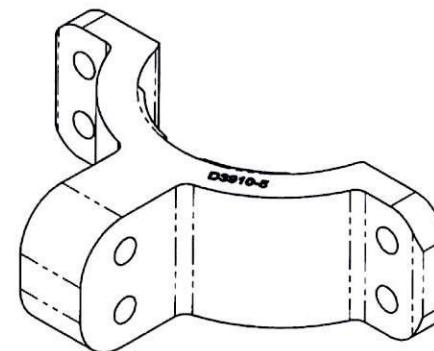
**Mfg Date: 11/08/17**  
**Job No: 167537**



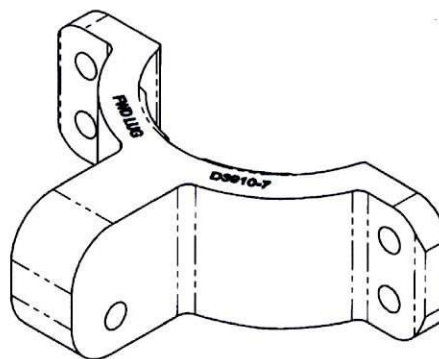
**D3910-1 X-TUBE LUG**



**D3910-3 X-TUBE LUG**



**D3910-5 X-TUBE LUG**



**D3910-7 X-TUBE LUG**

**NOTES:**

- 1) MATERIAL: MAKE FROM D2423 EXTRUSION
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1  
POWDER COAT WHITE (4.3.5.1) PER DART QSI 005 4.3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: ENGRAVE PART NUMBER TO A DEPTH OF 0.010  $\pm$  0.005 IN THIS LOCATION WITH A TOOL TIP RADIUS OF 0.015  $\pm$  0.005
- 7) WEIGHT -1: 0.32 lbs  
-3: 0.25 lbs  
-5: 0.36 lbs  
-7: 0.37 lbs
- 8) IDENTIFICATION: ENGRAVE "FWD LUG" TO A DEPTH OF 0.010  $\pm$  0.005 IN THIS LOCATION WITH A TOOL TIP RADIUS OF 0.015  $\pm$  0.005

**RELEASED**

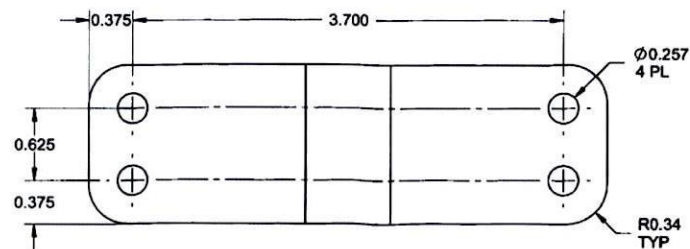
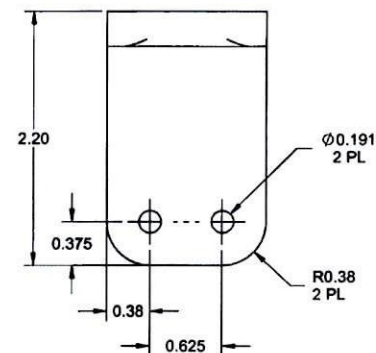
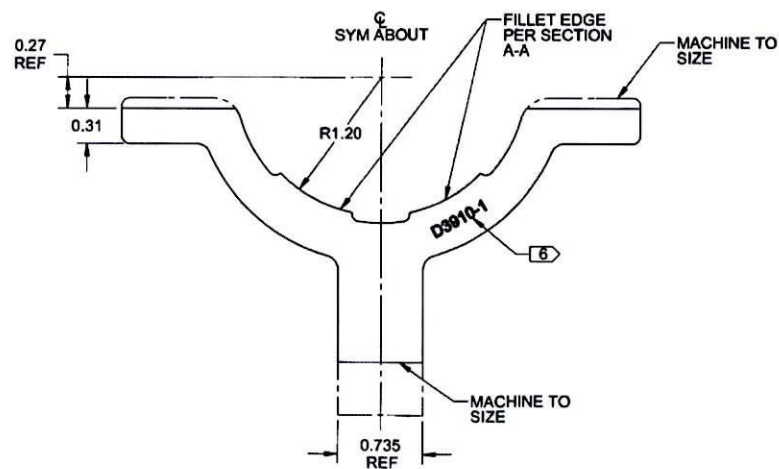
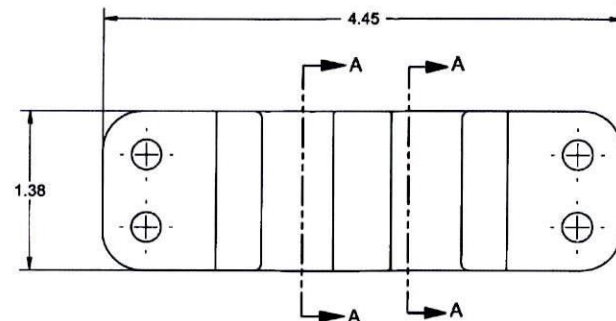
2014 JUN 05  
ECN 14-572

| E          | ADD -7 PER NCR14-3871                                                                                                | AJS                                                                                                                                                                                                                                                                      | 14.05.16     |
|------------|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| D          | CHANGED FASTENER HOLES IN -5 FOR 1/4" HARDWARE.<br>REASON: EASE OF INSTALLATION.                                     | AJS                                                                                                                                                                                                                                                                      | 13.08.14     |
| C          | ADD -5.                                                                                                              | AJS                                                                                                                                                                                                                                                                      | 13.08.08     |
| B          | Ø0.257 HOLES: 4 PL WAS 2 PL (A3-2) & (A3-3); R0.34<br>FILLET WAS R0.50 (A3-2) & (A3-3).<br>REASON: SEE TR-0350-697-2 | JPH                                                                                                                                                                                                                                                                      | 10.03.16     |
| A          | NEW ISSUE                                                                                                            | JPH                                                                                                                                                                                                                                                                      | 10.03.04     |
| REV.       | DESCRIPTION                                                                                                          | BY                                                                                                                                                                                                                                                                       | DATE         |
| DESIGN     | AJS                                                                                                                  | <b>DART AEROSPACE LTD</b><br>HAWKESBURY, ONTARIO, CANADA                                                                                                                                                                                                                 |              |
| DRAWN      | AJS                                                                                                                  |                                                                                                                                                                                                                                                                          |              |
| CHECKED    | JPH                                                                                                                  | DRAWING NO.                                                                                                                                                                                                                                                              | REV. E       |
| MFG. APPR. | JPH                                                                                                                  | D3910                                                                                                                                                                                                                                                                    | SHEET 1 OF 5 |
| APPROVED   | JPH                                                                                                                  | TITLE                                                                                                                                                                                                                                                                    | SCALE        |
| DE APPR.   | JPH                                                                                                                  | X-TUBE LUG (350)                                                                                                                                                                                                                                                         | NTS          |
| DATE       | 14.05.16                                                                                                             | COPYRIGHT © 2010 BY DART AEROSPACE LTD<br>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD. |              |



ROUND EDGE  
R0.06 MIN - R0.10 MAX  
2 PL

**SECTION A-A**



**D3910-1 X-TUBE LUG**

**RELEASED**

2014 JUN 05

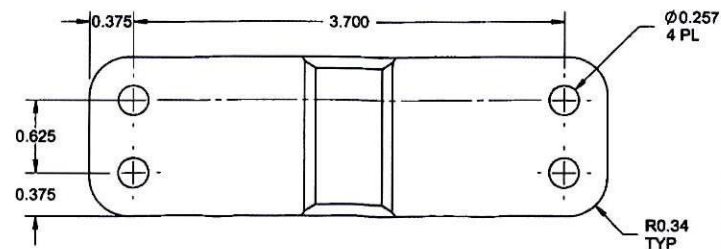
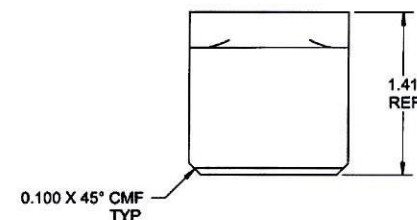
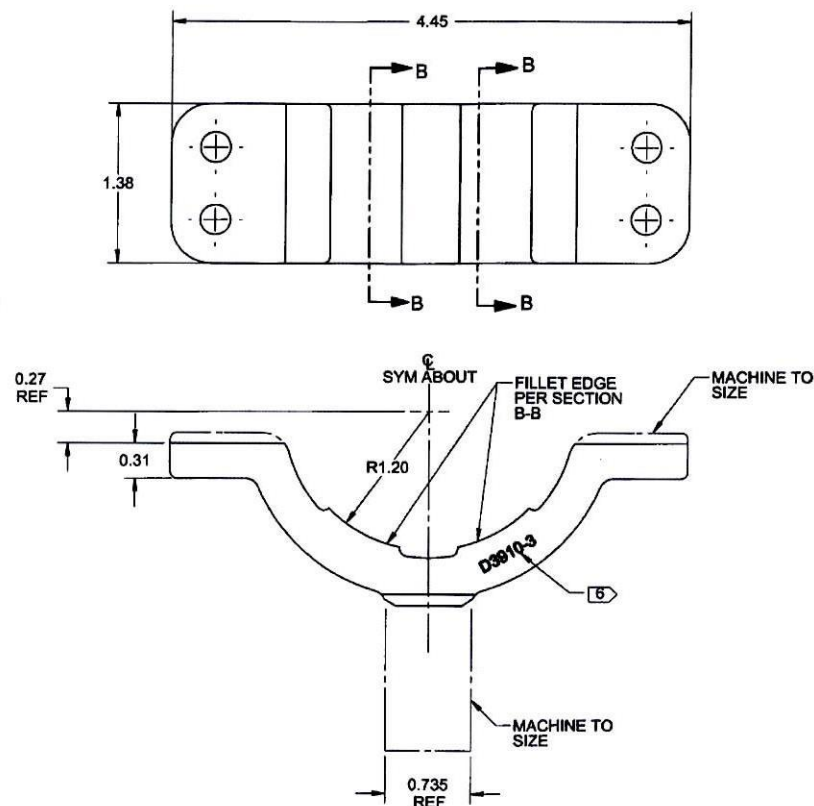
|            |                    |                                                                                                                                                                                                                                                                          |        |
|------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| DESIGN     | AJS                | <b>DART AEROSPACE LTD</b>                                                                                                                                                                                                                                                |        |
| DRAWN      | AJS                | HAWKESBURY, ONTARIO, CANADA                                                                                                                                                                                                                                              |        |
| CHECKED    | <i>[Signature]</i> | DRAWING NO. D3910                                                                                                                                                                                                                                                        | REV. E |
| MFG. APPR. | <i>[Signature]</i> | SHEET 2 OF 5                                                                                                                                                                                                                                                             |        |
| APPROVED   | <i>[Signature]</i> | TITLE                                                                                                                                                                                                                                                                    | SCALE  |
| DE APPR.   | <i>[Signature]</i> | X-TUBE LUG (350)                                                                                                                                                                                                                                                         | NTS    |
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**SECTION B-B**



ROUND EDGE  
R0.06 MIN - 0.10 MAX  
2 PL



**D3910-3 X-TUBE LUG**

**RELEASED**

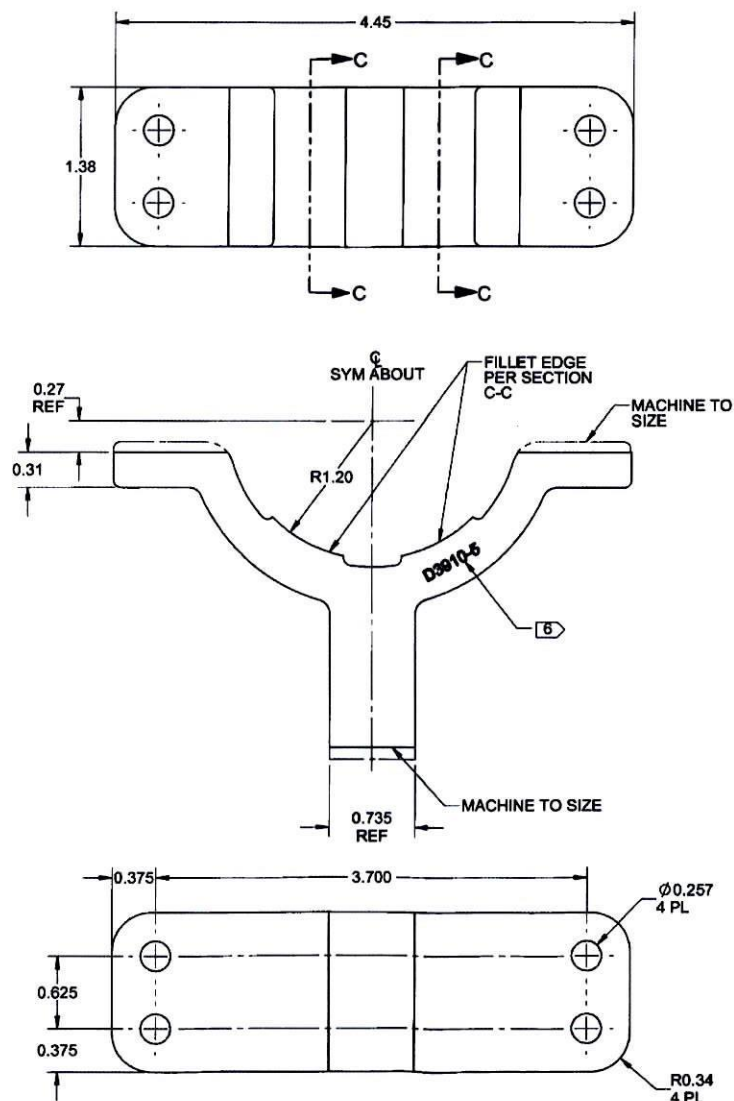
2014 JUN 05

|                                                                                                                                                                                                                                |                    |                                        |              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------|--------------|
| DESIGN                                                                                                                                                                                                                         | AJS                | <b>DART AEROSPACE LTD</b>              |              |
| DRAWN                                                                                                                                                                                                                          | AJS                | HAWKESBURY, ONTARIO, CANADA            |              |
| CHECKED                                                                                                                                                                                                                        | <i>[Signature]</i> | DRAWING NO.                            | REV. E       |
| MFG. APPR.                                                                                                                                                                                                                     | <i>[Signature]</i> | D3910                                  | SHEET 3 OF 5 |
| APPROVED                                                                                                                                                                                                                       | <i>[Signature]</i> | TITLE                                  | SCALE        |
| DE APPR.                                                                                                                                                                                                                       | <i>[Signature]</i> | X-TUBE LUG (350)                       | NTS          |
| DATE                                                                                                                                                                                                                           | 14.05.16           | COPYRIGHT © 2010 BY DART AEROSPACE LTD |              |
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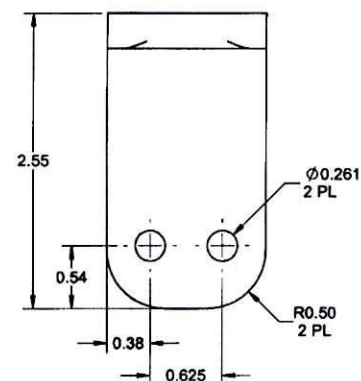
**SECTION C-C**



ROUND EDGE  
R0.06 MIN - 0.10 MAX  
2 PL



**D3910-5 X-TUBE LUG**



**RELEASED**

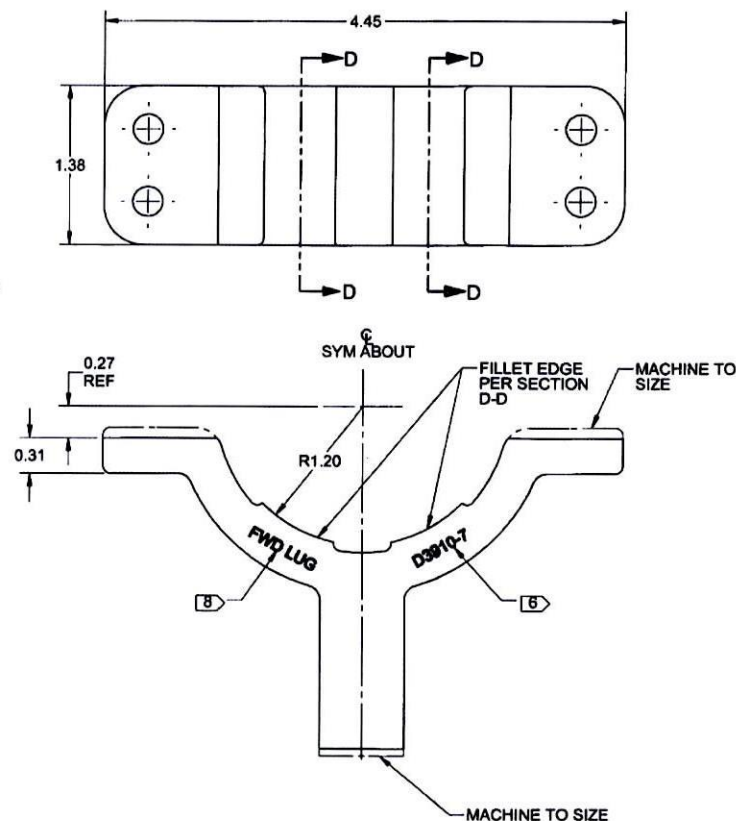
2014 JUN 05

|                                                                                                                                                                                                                                  |                                                                                       |                                        |              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|--------------|
| DESIGN                                                                                                                                                                                                                           | AJS                                                                                   | <b>DART AEROSPACE LTD</b>              |              |
| DRAWN                                                                                                                                                                                                                            | AJS                                                                                   | HAWKESBURY, ONTARIO, CANADA            |              |
| CHECKED                                                                                                                                                                                                                          |  | DRAWING NO.                            | REV. E       |
| MFG. APPR.                                                                                                                                                                                                                       |  | D3910                                  | SHEET 4 OF 5 |
| APPROVED                                                                                                                                                                                                                         |  | TITLE                                  | SCALE        |
| DE APPR.                                                                                                                                                                                                                         |  | X-TUBE LUG (350)                       | NTS          |
| DATE                                                                                                                                                                                                                             | 14.05.16                                                                              | COPYRIGHT © 2010 BY DART AEROSPACE LTD |              |
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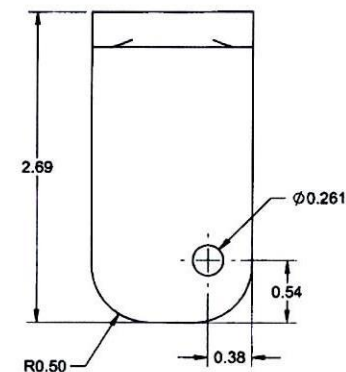
**SECTION D-D**



ROUND EDGE  
R0.06 MIN - 0.10 MAX  
2 PL



**D3910-7 X-TUBE LUG**



**RELEASED**

2014 JUN 05

|                                                                                                                                                                                                                                        |                                                                                       |                                        |              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|--------------|
| DESIGN                                                                                                                                                                                                                                 | AJS                                                                                   | <b>DART AEROSPACE LTD</b>              |              |
| DRAWN                                                                                                                                                                                                                                  | AJS                                                                                   | HAWKESBURY, ONTARIO, CANADA            |              |
| CHECKED                                                                                                                                                                                                                                |  | DRAWING NO.                            | REV. E       |
| MFG. APPR.                                                                                                                                                                                                                             |  | D3910                                  | SHEET 5 OF 5 |
| APPROVED                                                                                                                                                                                                                               |  | TITLE                                  | SCALE        |
| DE APPR.                                                                                                                                                                                                                               |  | X-TUBE LUG (350)                       | NTS          |
| DATE                                                                                                                                                                                                                                   | 14.05.16                                                                              | COPYRIGHT © 2010 BY DART AEROSPACE LTD |              |
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Dart Hawkesbury  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# PURCHASE ORDER PO038228

**Supplier:** MEM001-VC  
Metec Metal Technology Inc.  
20 Terry Fox Drive PO Box 781  
Vankleek Hill  
ON  
K0B 1R0 Canada  
Phone: 613 678 3957  
Fax: 613 678 3956

**Attention:** Walz, Shigi

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**PO No:** PO038228

**PO Date:** 11/2/17

**Due Date:** 11/23/17

**Purchase Order**

**Revision:**

**Revision Date:**

**Ship-To Contact:** Baker, Diane  
Phone: dbaker@dartaero.com

**Via:** Ground

**Pymt Terms:** Net 30

**Freight Terms:**

**Special Comments:** Note: alodine and paint as per QSI 005

*REVISED*

| Items                      |          |     |                  |         |                                                   |          |        |          |                |                   |         |                  |                |
|----------------------------|----------|-----|------------------|---------|---------------------------------------------------|----------|--------|----------|----------------|-------------------|---------|------------------|----------------|
| Line Item                  | Part     | Rev | Supplier Part No | Item No | Description                                       | Item Tax | Status | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (CAD) | Extended Price |
| 1                          | D2230-1P | -   |                  |         | Lug<br>As per Dwg<br>D2230 Rev.<br>G              |          | Firmed | 11/23/17 | 160 Ea         | 0 Ea              | 160 Ea  | \$12.88/Ea       | \$2,060.80     |
| Line Item Note job# 167531 |          |     |                  |         |                                                   |          |        |          |                |                   |         |                  |                |
| 2                          | D2230-3P | -   |                  |         | Lug<br>As Per Dwg<br>D2230 Rev.<br>G              |          | Firmed | 11/23/17 | 210 pcs        | 0 pcs             | 210 pcs | \$14.00/pcs      | \$2,940.00     |
| Line Item Note job# 167532 |          |     |                  |         |                                                   |          |        |          |                |                   |         |                  |                |
| 3                          | D3235-1P | -   |                  |         | Lug<br>As Per Dwg<br>D3235 Rev.<br>A              |          | Firmed | 11/23/17 | 150 pcs        | 0 pcs             | 150 pcs | \$15.00/pcs      | \$2,250.00     |
| Line Item Note job# 167533 |          |     |                  |         |                                                   |          |        |          |                |                   |         |                  |                |
| 4                          | D3910-1P | -   |                  |         | Crosstube<br>Lug<br>As Per Dwg<br>D3910 Rev.<br>E |          | Firmed | 11/23/17 | 30 Ea          | 0 Ea              | 30 Ea   | \$12.88/Ea       | \$386.40       |
| Line Item Note job# 167535 |          |     |                  |         |                                                   |          |        |          |                |                   |         |                  |                |
| 5                          | D3910-3P | -   |                  |         | Crosstube<br>Lug<br>As Per Dwg<br>D3910 Rev.<br>E |          | Firmed | 11/23/17 | 40 pcs         | 0 pcs             | 40 pcs  | \$13.00/pcs      | \$520.00       |
| Line Item Note job# 167536 |          |     |                  |         |                                                   |          |        |          |                |                   |         |                  |                |
| 6                          | D3910-5P | -   |                  |         | Crosstube<br>Lug<br>As per Dwg<br>D3910 Rev.<br>E |          | Firmed | 11/23/17 | 30 Ea          | 0 Ea              | 30 Ea   | \$12.88/Ea       | \$386.40       |
| Line Item Note job# 167537 |          |     |                  |         |                                                   |          |        |          |                |                   |         |                  |                |
| 7                          |          | -   |                  |         |                                                   |          | Firmed | 11/23/17 | 20 Ea          | 0 Ea              | 20 Ea   | \$12.88/Ea       | \$257.60       |



20 Terry Fox Drive  
 Vankleek Hill, Ontario K0B 1R0 , Canada  
 Tel: (613) 678-3957  
 Fax: (613) 678-3956

**Delivery Slip No.:** 22195  
**Date:** Nov 06, 2017  
**Page:** 1

|                                                                                                         |                                                                                                  |
|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| <b>Sold to:</b>                                                                                         | <b>Ship to:</b>                                                                                  |
| <b>Dart Aerospace Ltd.</b><br>Att. Linda Lacelle<br>1270 Aberdeen Street<br>Hawkesbury, Ontario K6A 1K7 | Dart Aerospace Ltd.<br>Att. Linda Lacelle<br>1270 Aberdeen Street<br>Hawkesbury, Ontario K6A 1K7 |
| <b>Order No.:</b> PO038228 NC                                                                           | <b>Sold By:</b> Walz, Christian D.                                                               |
| <b>Shipped By:</b> your truck                                                                           | <b>Ship Date:</b> Nov 06, 2017                                                                   |

| Description                                                                                                                                                                                            | Bin Loc | Unit | Quantity ordered | Quantity shipped | Quantity on B/O |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|------------------|------------------|-----------------|
| D2230-1 Mounting Lug<br>Alodine and Paint as per QSI 005                                                                                                                                               |         | Each | 200              | 160              | 40              |
| D2230-3 Mounting Lug<br>Alodine and Paint as per QSI 005                                                                                                                                               |         | Each | 300              | 210              | 90              |
| D3235-1 Mounting Lug<br>Alodine and Paint as per QSI 005                                                                                                                                               |         | Each | 160              | 150              | 10              |
| D3910-1 Crosstube Lug<br>Alodine and Paint as per QSI 005                                                                                                                                              |         | Each | 30               |                  | 30              |
| D3910-3 Crosstube Lug<br>Alodine and Paint as per QSI 005                                                                                                                                              |         | Each | 40               | 40               |                 |
| D3910-5 Crosstube Lug<br>Alodine and Paint as per QSI 005                                                                                                                                              |         | Each | 30               | 30               |                 |
| D3910-7 Crosstube Lug, as per drawing D3910 Rev.E<br>Alodine and Paint as per QSI 005                                                                                                                  |         | Each | 20               | 20               |                 |
| D4091-1 Lug as per drawing D4091 Rev.A<br>Alodine and Paint as per QSI 005                                                                                                                             |         | Each | 30               | 30               |                 |
| The delivered goods must be inspected upon receipt to confirm compliance.<br>Should there be discrepancies please notify METEC within 30 days of delivery.<br>The goods are otherwise deemed accepted. |         |      |                  |                  |                 |

DAS  
38  
9-8"

Received by

*SP 17-118*

**Thank you for your order!**



20 Terry Fox Drive, Vankleek Hill, Ontario K0B 1R0

Tel. (613) 678-3957 & (613) 678-2782 Fax (613) 678-3956 [metec@metec.ca](mailto:metec@metec.ca)

## CERTIFICATE OF CONFORMITY

SOLD TO:

Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, Ont.  
K6A 1K7

SHIPPED TO:

same

| Quantity      | Part Number | Part Name | Material Batch # | Paint Batch # | P.O. Number |
|---------------|-------------|-----------|------------------|---------------|-------------|
| 22            | D2230-1     | Lug       | 148835           | 21012         | 038228      |
| 78            | D2230-1     | Lug       | 148835           | 20902         | 038228      |
| 60            | D2230-1     | Lug       | 115529           | 21143         | 038228      |
| 210           | D2230-3     | Lug       | 160522           | 21182         | 038228      |
| 150           | D3235-1     | Lug       | 148835           | 21003         | 038228      |
| 40            | D3910-3     | Lug       | 160522           | 21207         | 038228      |
| <del>30</del> | D3910-5     | Lug       | 148835           | 20715         | 038228      |
| 20            | D3910-7     | Lug       | 131451           | 20366         | 038228      |
| 30            | D4091-1     | Lug       | 148835           | 21095         | 038228      |

MATERIAL: supplied by DART

We hereby certify that the above parts were made in conformance with applicable drawings.

METEC Metal Technology Inc.

Jan Norris

Vankleek Hill, November 6, 2017